

e-mailed to Dennis Bruns. 8/14/11

Form C-104  
Rev. 02/2009

VALUE ENGINEERING CHANGE PROPOSAL  
MISSOURI DEPARTMENT OF TRANSPORTATION

☒ Conceptual Proposal      ☐ Final Proposal      Date 8-11-11

Contract ID 110218-502      Job No. J5I2202

County Boone      I-70      Original Bid Cost \$730,028.78

Contractor Widel, Inc.      By Bob Widel

Designed By \_\_\_\_\_      Phone 660-846-3791

VECP# 11-54 (to be completed by C.O.)      VECP ☐ or PDVECP ☒

1. Description of existing requirements and proposed change(s). Advantages/Disadvantages

- 1. To delete west bound lane saw cuts
- 2. Delete 155.55 sign of west bound A-2 shoulder
- 3. Delete 4 inches of Type 1 Aggregate shoulder
- 4. Remove & replace guardrail, 1050 feet
- 5. Delete 1050 feet (plus tapers) of Temporary Traffic Barrier

2. Estimate of reduction in construction costs. \$53,381<sup>00</sup> (see attached)

3. Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.

NONE

4. Anticipated date for submittal of detailed change(s) of items required by Section 104.6 of the Specifications.

Aug 11, 2011  
(date)

5. Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule.

UNKNOWN

\_\_\_\_\_  
(date) (effect)

6. Dates of any previous or concurrent submission of the same proposal.

NONE  
(date and/or dates)

Additional Comments:

**\*\* Portion Below This Line To Be Filled Out by MoDOT \*\***

Comments: Contractor has a very good suggestion ~~and~~ that we encourage thinking outside the box. We approve this VE request. This is a PDVECP since we are keeping existing shoulder in place and just removing Traffic Control.

Charles Hull 8-12-11  
Submitted By Resident Engineer Date

Comments: Agree that the proposal concept is a good idea. It enables us to utilize existing shoulder and guardrail in place and eliminate traffic control items in area. VE will be a 75/25 split.

☒ Approval Recommended *[Signature]* 8/16/11  
☐ Rejection Recommended District Engineer Date

Comments:

☐ Approval Recommended N/A  
☐ Rejection Recommended Federal Highway Administration Date  
Required for FHWA Full Oversight Projects

Comments: 25%

☒ Approval *David D. Coates*   
☐ Rejection State Construction and Materials Engineer Date

Digitally signed by Dennis Brucks  
DN: cn=Dennis Brucks, o=Field Office, ou=6N25,  
email=Dennis.Brucks@modot.mo.gov, c=US  
Date: 2011.08.22 09:34:16 -05'00'

Distribution: Resident Engineer, Project Manager, District Construction & Materials Engineer, State Construction & Materials Engineer, FHWA Value Engineering Administrator - MoDOT, P. O. Box 270, Jefferson City, MO 65102

Item	Qunatity	Unit Costs	Total
Type A Guardrail	1178	\$14.50	\$ 17,081.00
A2 Soulder	155	\$55.00	\$ 8,525.00
4" Type 1 Base Rock	155	\$5.00	\$ 775.00
Temp Traffic Barrier	1500	\$18.00	\$ 27,000.00
			\$ 53,381.00

Contract ID: 110218-502  
Job No.: J5I2202  
Interstate Route 70 EB & WB  
Slide Repair Boone County

Widel, Inc. has submitted a Value Engineering Proposal to eliminate the removal of guardrail and shoulder along the northern slide area for the I-70 Westbound portion of the contract. By eliminating its removal there will be no need to place temporary traffic barrier along the shoulder edge along with numerous traffic control signs.

Current plan sheets, along with existing conditions, indicate that the slide repair area is adjacent to the shoulder and not encompassing the shoulder, thus the existing shoulder is in stable condition and the contractor requested to leave it in place and work the slide up to the existing outside edge plus two feet from the existing guardrail. Their proposal is sound and feasible as the western portion of the northern repair area is being corrected in the same manner.

A second thing in the contractor's favor is the moisture content in the soil. This soil is very cohesive and moist. The contractor does not have to manipulate the soil and apply additives to make it workable, thus the time needed to work an open area is shortened.

I really feel that we are getting a great value here.

Charles Sullivan, P.E.  
Resident Engineer – CD, Columbia Project Office

# VALUE ENGINEERING CHECK SHEET

## *TYPE OF WORK*

(Check one that applies)

- ☐ Bridge/Structure/Footings
- ☐ Drainage Structures (RCP, RCB, CMP's, ect.)
- ☐ TCP/MOT
- ☐ Paving (PCCP, ect.)
- ☒ Grading/MSE Walls
- ☐ Signal/Lighting/ITS
- ☐ Misc

## *SUMMARY OF PROPOSAL*

(If needed, condense summary to a couple of lines)

Eliminate removal of guardrail and shoulder. Repair slide from behind guardrail, working from the bottom of the slope to the top.

## *SCANNING OF DOCUMENT*

If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.

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